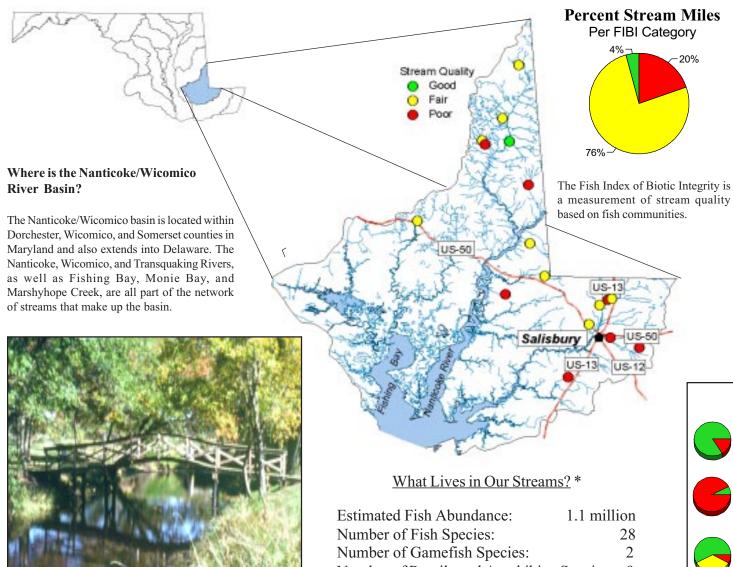


Nanticoke/Wicomico River Basin

Current Status of Wadeable Streams

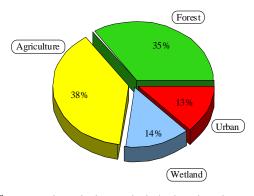
Land Use in the Basin



While the region was one of the first to be inhabited by Europeans, the lower portion of the Nanticoke/Wicomico basin remains one of the least developed areas in Maryland.

Estimated Fish Abundance: 1.1 mill	ion
Number of Fish Species:	28
Number of Gamefish Species:	2
Number of Reptile and Amphibian Species:	9
Number of Freshwater Mussel Species:	1

*Based on collections of the Maryland Biological Stream Survey in wadeable streams basin-wide during 1995.



Land uses in the Nanticoke/ Wicomico River basin are primarily agricultural and rural. Agriculture and related activities, such as packaging plants, are of economically important in the basin. The basin covers an area of 877 square miles with a population density of 100 people per square mile.



Water Quality



Oxygen - 16% of the streams had oxygen levels below the state water quality standard of 5 mg/L.



Nitrate - 92% of the streams had nitrate levels (>1 mg/L) that may affect aquatic life. The main sources of nitrates in small streams are fertilizers and acid rain.



Buffering Capacity - 8% of the streams are poorly buffered against acid rain.

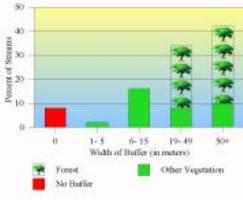






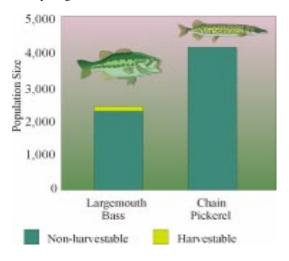
Riparian Zone

Trees, shrubs, and grasses that border a stream are called the stream's *riparian buffer*. This buffer zone can protect a stream against runoff, provides shade, stabilizes stream banks, and supplies food and shelter for aquatic life. A wide and intact buffer offers more protection than a narrow one. The riparian buffers in the Nanticoke/Wicomico basin are generally in good condition. We can help maintain these buffers by protecting streamside forests and planting trees in disturbed areas.



Gamefish

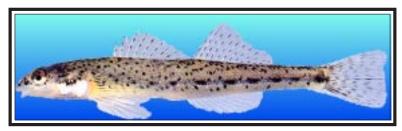
Two gamefish species were found in the basin, but most fish were smaller than the legal size limit. Wadeable tributary streams in the Nanticoke/ Wicomico appear to serve as a nursery for gamefish.





Did You Know???

- Of the major river basins in Maryland, the Nantfocke/ Wicomico has among the highest percentage of wetlands.
- The basin is among the lowest in elevation of Maryland's major river basins, with most of the basin less than 60 feet above sea level. The low elevation leads to frequent flooding.
- We may be losing an irreplaceable part of our natural heritage. At present there are two fish species in the basin that are at risk of local extinction: the glassy darter and the mud sunfish.



The glassy darter, an endangered species, is found in the Nanticoke/Wicomico River Basin.

Community Involvement

Want to help? These community groups can show you how!

Alliance for the Chesapeake Bay 6600 York Road, Suite 100 Baltimore, MD 21212 Kathleen Millan (410) 377-6270

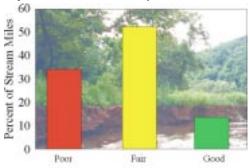
Friends of the Nanticoke River P.O. Box 15 Nanticoke, MD 21840-0015 Judith Stribling (410) 543-6431

Wicomico Environmental Trust Dr. Harry Womack (410) 543-6492 Lower Eastern Shore Tributary Team Tawes State Office Building, C-2 Annapolis, MD 21401 Christina Mills (410) 260-8710



Stream Bank Stability

Eroded, unstable banks reduce habitat quality in streams and contribute to water quality problems in downstream areas. On average, the stability of stream banks in the basin is fair to poor. As some of the lands within the basin were developed for agriculture, and later urbanized, some stream banks became highly eroded. Since the streams in this basin flow into the Chesapeake, this bank instability causes an increase in downstream transport of nutrients and suspended sediments to the Bay.



Stream Bank Condition

Recreation

There are many places to enjoy recreational activities in the basin, such as the Blackwater National Wildlife Refuge and five state wildlife management areas. Popular activities include fishing, hunting, trapping, picnicking, camping, swimming, hiking, boating, and nature observation.



A popular summer swimming spot, Johnson's Pond, is located near Salisbury, in Wicomico County.

For more detailed information on streams in the Nanticoke/Wicomico basin and elsewhere in Maryland contact Ann Smith of DNR/MANTA at (410) 260-8610 or email asmith@dnr.state.md.us, or check out the DNR web site at www.dnr.state.md.us/Bays/waterqual/mbss/mbss.html.